

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY032720\  
 Data File : VY002112.D  
 Acq On : 27 Mar 2020 17:45  
 Operator : SY/MD  
 Sample : L2053-01  
 Misc : 6.51G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-13-(4-5)

Quant Time: Mar 30 03:26:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y032620S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 07:11:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 124329   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 241900   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 218915   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 87260    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min)           |
|-----------------------------|-------|------|----------|-------|-------|--------------------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 78743    | 57.29 | ug/l  | -0.01              |
| Spiked Amount               |       |      |          |       |       |                    |
|                             |       |      |          |       |       | Recovery = 114.58% |
| 35) Dibromofluoromethane    | 7.73  | 113  | 72939    | 53.81 | ug/l  | 0.00               |
| Spiked Amount               |       |      |          |       |       |                    |
|                             |       |      |          |       |       | Recovery = 107.62% |
| 50) Toluene-d8              | 10.19 | 98   | 299358   | 53.17 | ug/l  | 0.00               |
| Spiked Amount               |       |      |          |       |       |                    |
|                             |       |      |          |       |       | Recovery = 106.34% |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 96471    | 48.99 | ug/l  | 0.00               |
| Spiked Amount               |       |      |          |       |       |                    |
|                             |       |      |          |       |       | Recovery = 97.98%  |

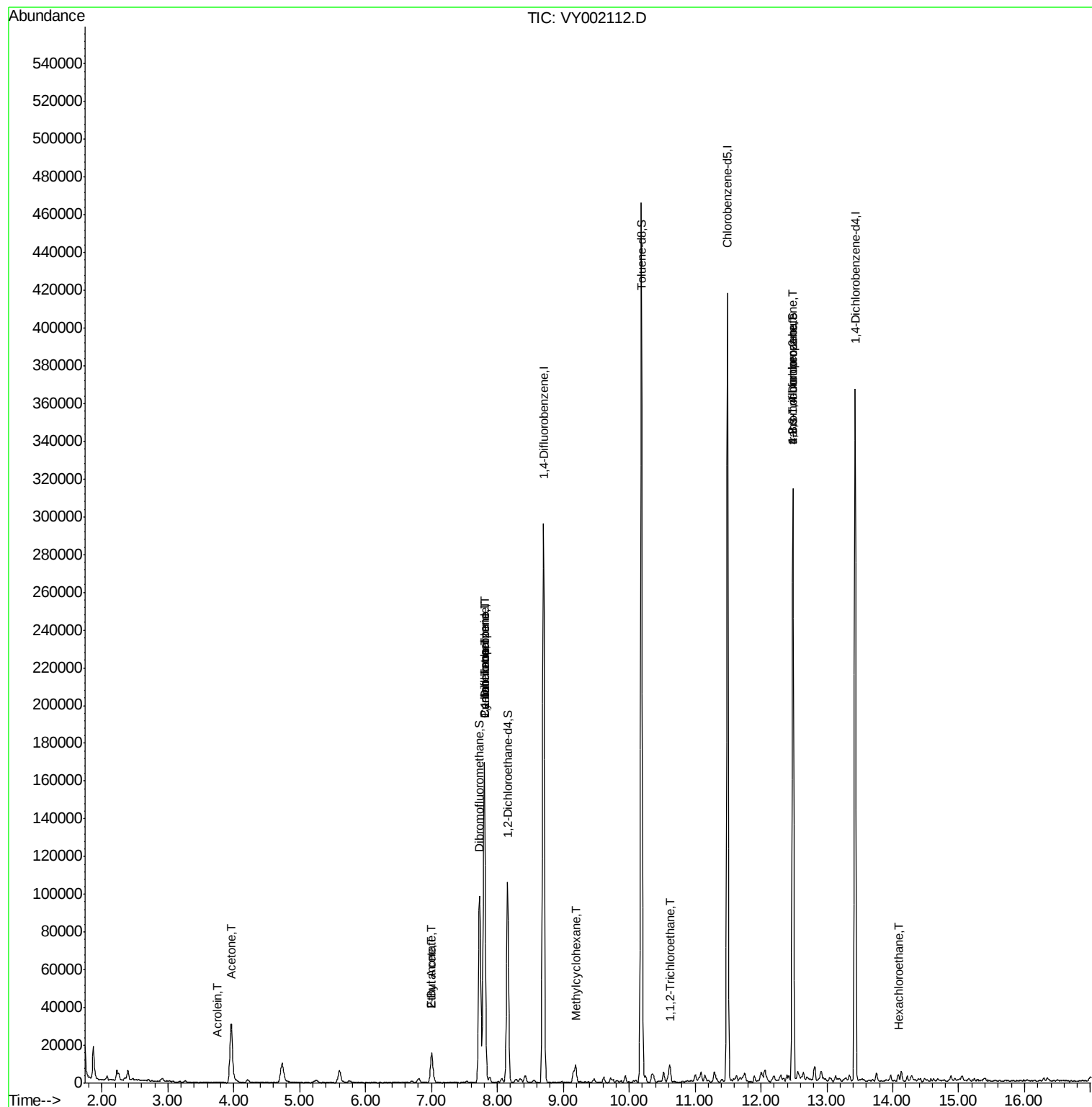
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 13) Acrolein                   | 3.75  | 56   | 351      | 1.734     | ug/l # | 40     |
| 16) Acetone                    | 3.96  | 43   | 55479    | 143.675   | ug/l   | 99     |
| 20) Methylene Chloride         | 4.74  | 84   | 7384     | Below Cal |        | 95     |
| 25) 2-Butanone                 | 7.00  | 43   | 26877    | 45.330    | ug/l   | 93     |
| 31) Cyclohexane                | 7.80  | 56   | 5012     | 1.750     | ug/l # | 19     |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 11189    | 4.890     | ug/l # | 50     |
| 37) Ethyl Acetate              | 7.00  | 43   | 26877    | 19.438    | ug/l # | 68     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 12694    | 6.539     | ug/l # | 20     |
| 39) Methylcyclohexane          | 9.19  | 83   | 4166     | 1.388     | ug/l   | 100    |
| 55) 1,1,2-Trichloroethane      | 10.63 | 97   | 2316     | 1.766     | ug/l # | 25     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 49570    | 50.785    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 49570    | 98.388    | ug/l # | 17     |
| 90) Hexachloroethane           | 14.09 | 117  | 1593     | 1.491     | ug/l # | 19     |

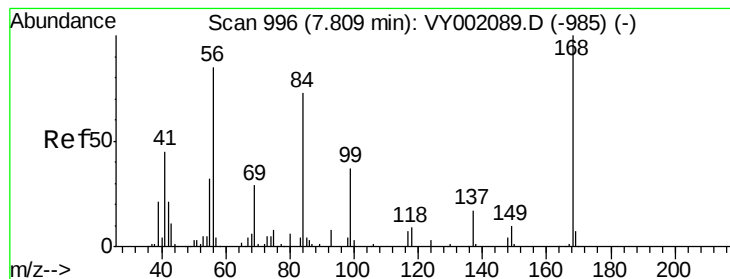
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\DATA\VY032720\  
Data File : VY002112.D  
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Operator : SY/MD  
Sample : L2053-01  
Misc : 6.51G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-13-(4-5)

Quant Time: Mar 30 03:26:46 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y032620S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 27 07:11:05 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.01 min

Lab File: VY002112.D

Acq: 27 Mar 2020 17:45

Instrument :

MSVOA\_Y

ClientSampleId :

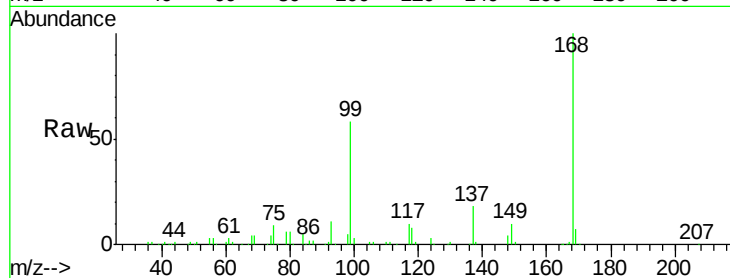
TP-13-(4-5)

Tgt Ion:168 Resp: 124329

Ion Ratio Lower Upper

168 100

99 57.9 47.6 71.4



Abundance Ion 167.90 (167.60 to 168.60): VY002112.D (-947) (-)

Ion 98.90 (98.60 to 99.60): VY002112.D (-947) (-)

7.80

60000

50000

40000

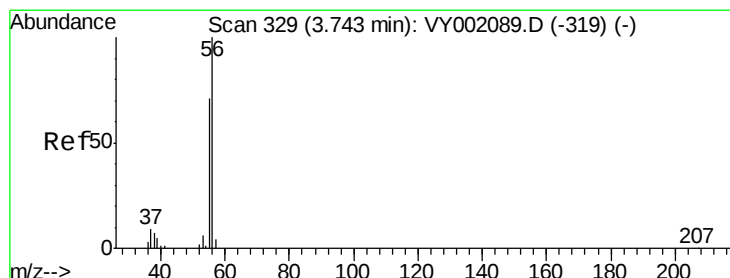
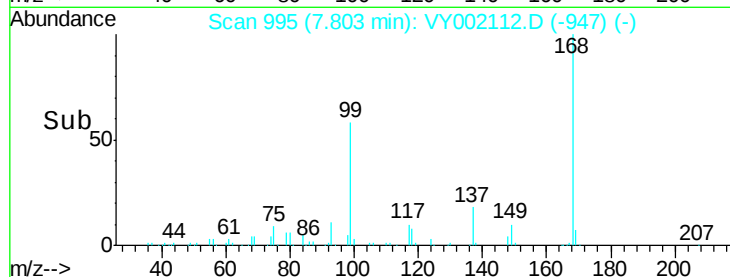
30000

20000

10000

0

Time-->



#13

Acrolein

Concen: 1.734 ug/l

RT: 3.75 min Scan# 330

Delta R.T. 0.01 min

Lab File: VY002112.D

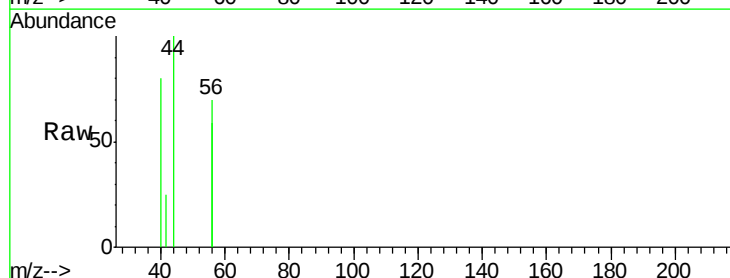
Acq: 27 Mar 2020 17:45

Tgt Ion: 56 Resp: 351

Ion Ratio Lower Upper

56 100

55 21.1 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VY002112.D (-280) (-)

Ion 55.00 (54.70 to 55.70): VY002112.D (-280) (-)

3.75

300

250

200

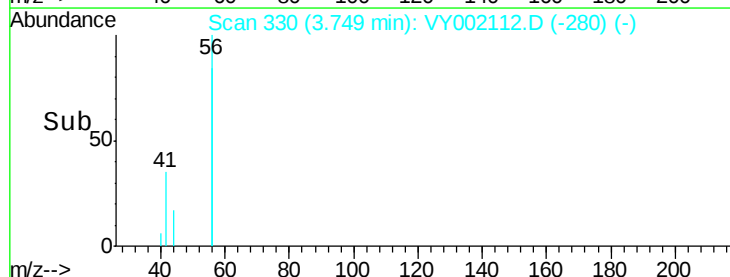
150

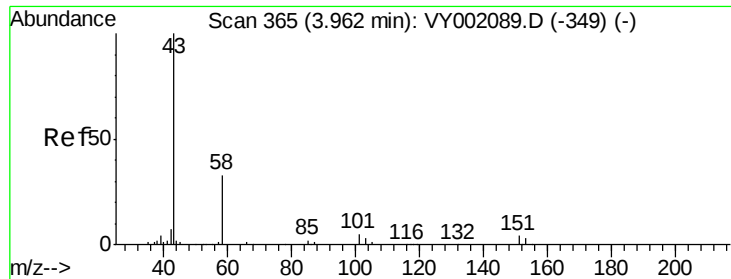
100

50

0

Time-->





#16

Acetone

Concen: 143.675 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.01 min

Lab File: VY002112.D

Acq: 27 Mar 2020 17:45

Instrument :

MSVOA\_Y

ClientSampleId :

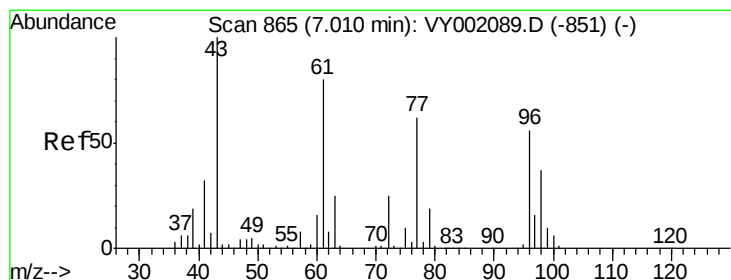
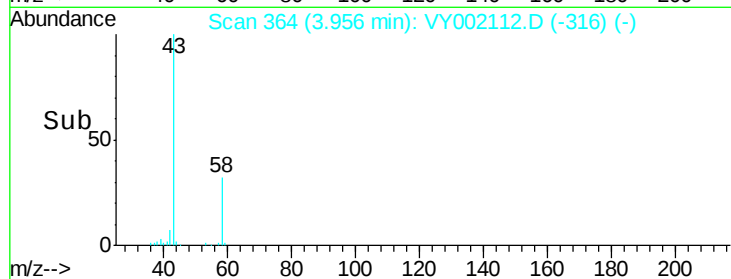
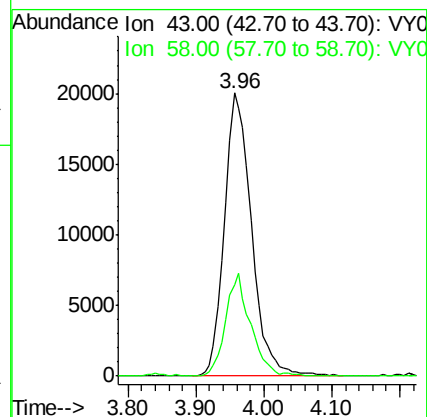
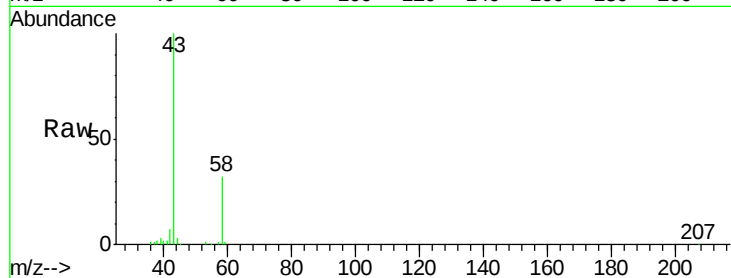
TP-13-(4-5)

Tgt Ion: 43 Resp: 55479

Ion Ratio Lower Upper

43 100

58 32.2 26.3 39.5



#25

2-Butanone

Concen: 45.330 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.01 min

Lab File: VY002112.D

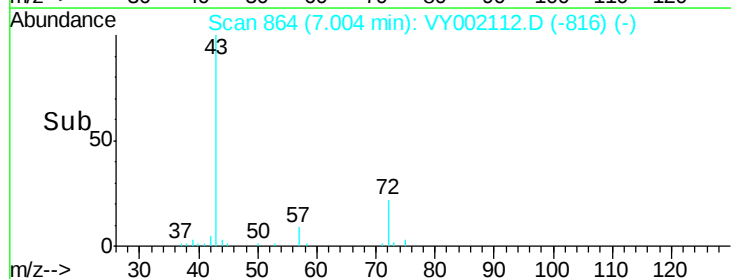
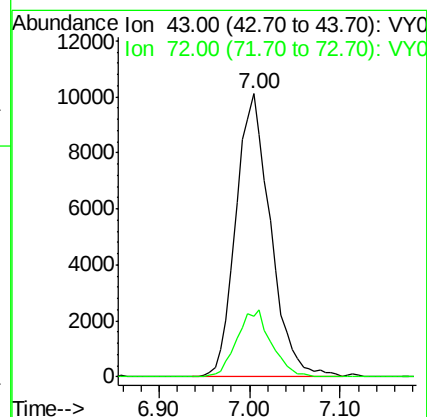
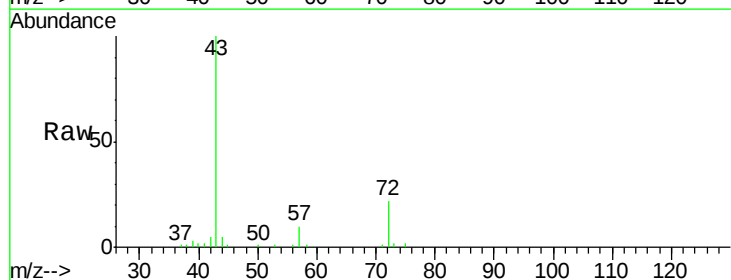
Acq: 27 Mar 2020 17:45

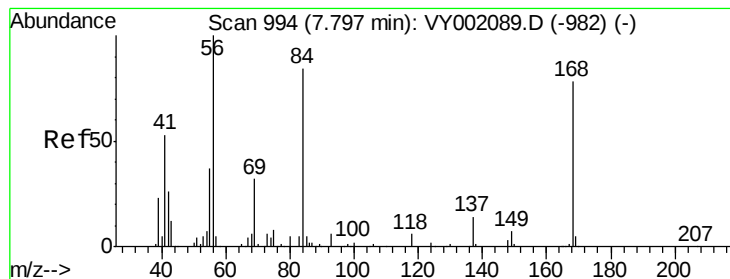
Tgt Ion: 43 Resp: 26877

Ion Ratio Lower Upper

43 100

72 21.5 20.2 30.2





#31

Cyclohexane

Concen: 1.750 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

Lab File: VY002112.D

Acq: 27 Mar 2020 17:45

Instrument :

MSVOA\_Y

ClientSampleId :

TP-13-(4-5)

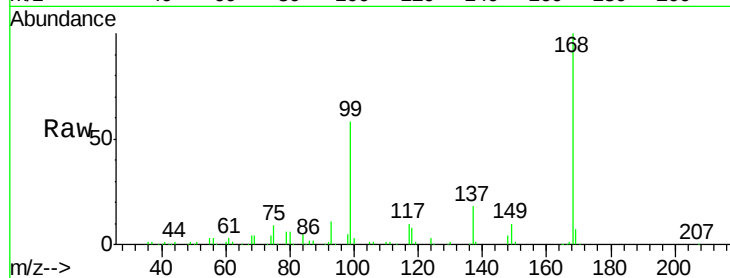
Tgt Ion: 56 Resp: 5012

Ion Ratio Lower Upper

56 100

69 117.6 25.8 38.8#

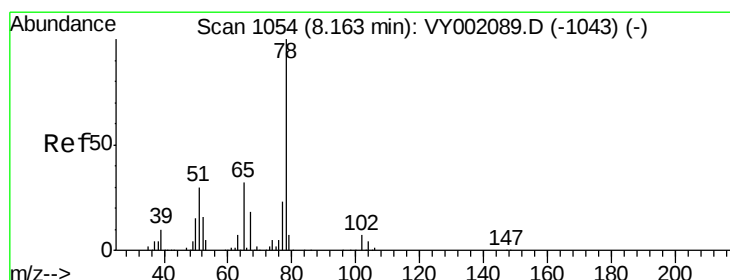
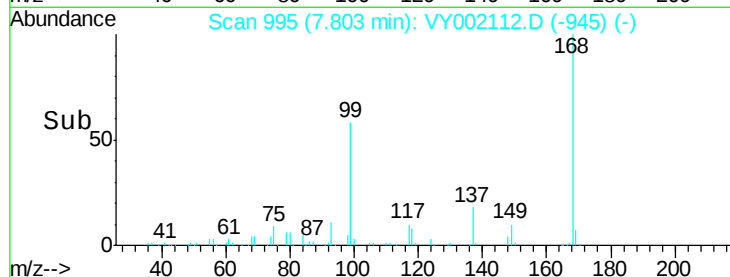
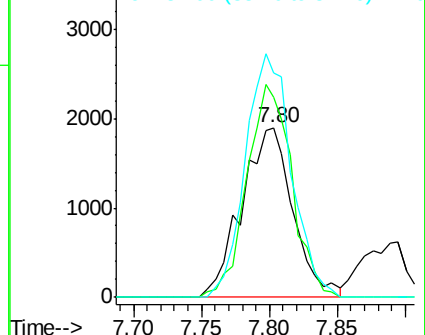
84 132.2 67.1 100.7#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 57.292 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VY002112.D

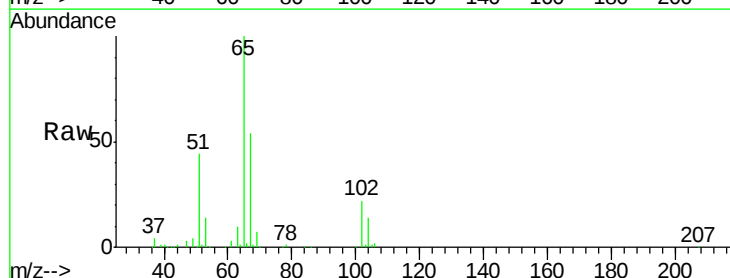
Acq: 27 Mar 2020 17:45

Tgt Ion: 65 Resp: 78743

Ion Ratio Lower Upper

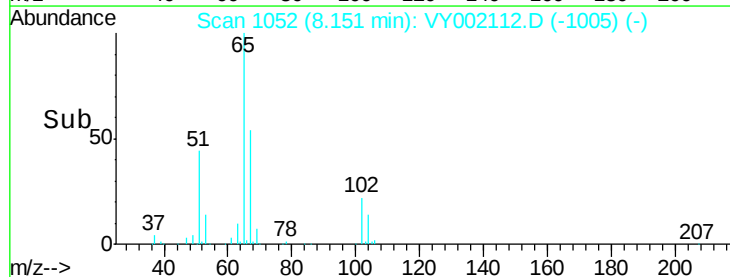
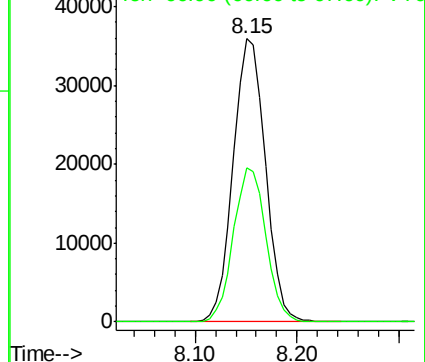
65 100

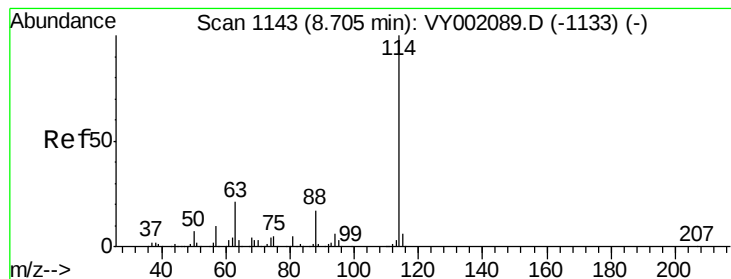
67 54.7 0.0 112.8



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY002112.D

Acq: 27 Mar 2020 17:45

Instrument :

MSVOA\_Y

ClientSampleId :

TP-13-(4-5)

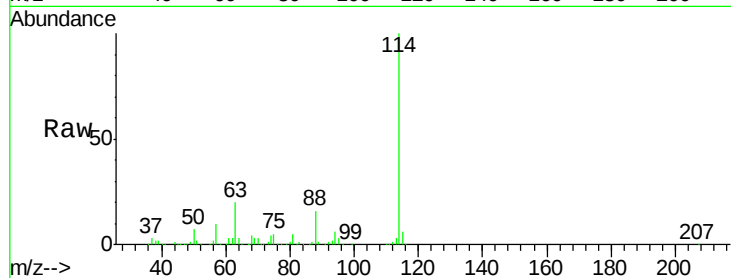
Tgt Ion:114 Resp: 241900

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

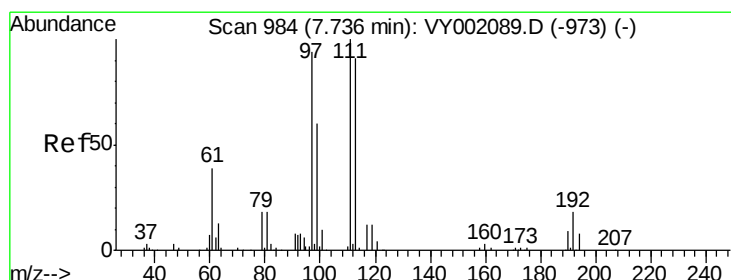
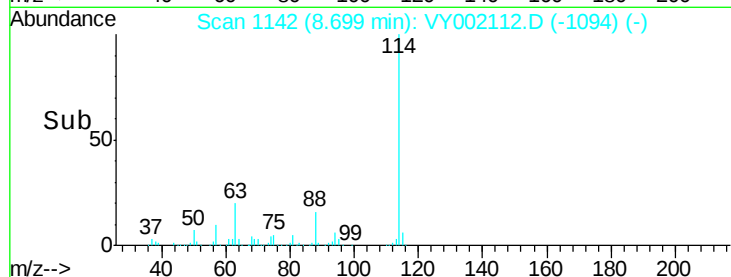
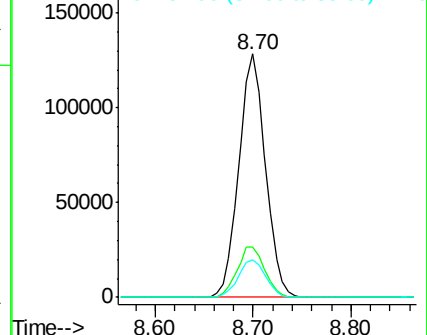
88 15.6 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 53.814 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.01 min

Lab File: VY002112.D

Acq: 27 Mar 2020 17:45

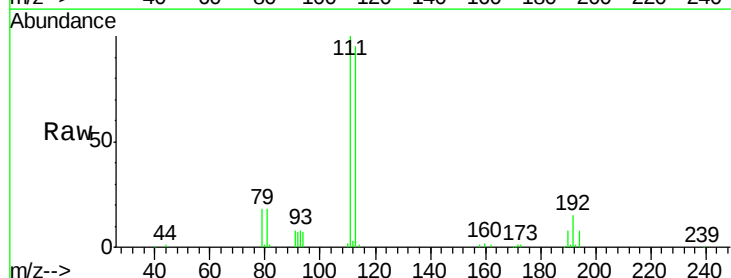
Tgt Ion:113 Resp: 72939

Ion Ratio Lower Upper

113 100

111 101.0 84.4 126.6

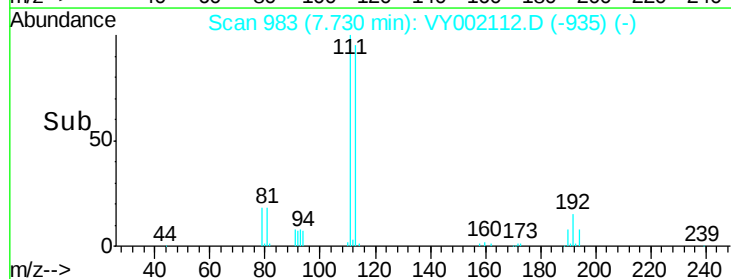
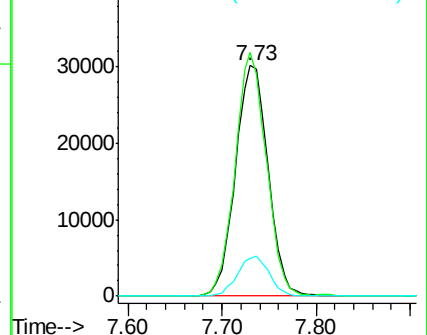
192 16.8 14.6 21.8

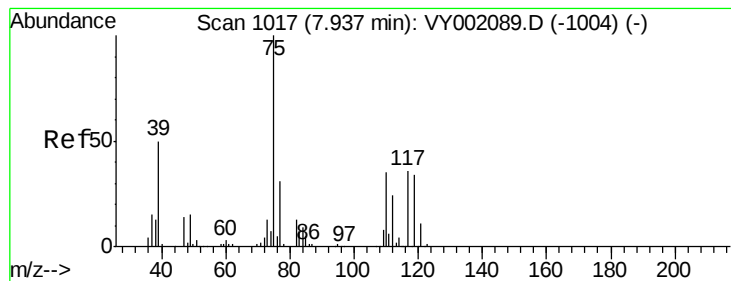


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.890 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.13 min

Lab File: VY002112.D

Acq: 27 Mar 2020 17:45

Instrument :

MSVOA\_Y

ClientSampleId :

TP-13-(4-5)

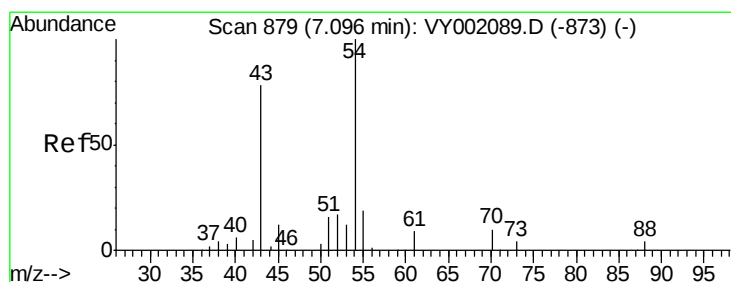
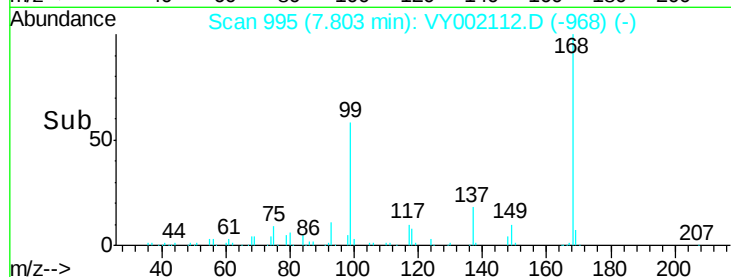
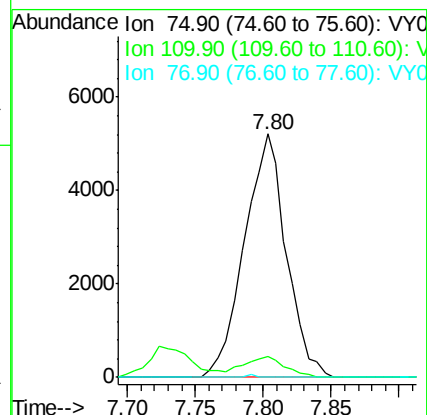
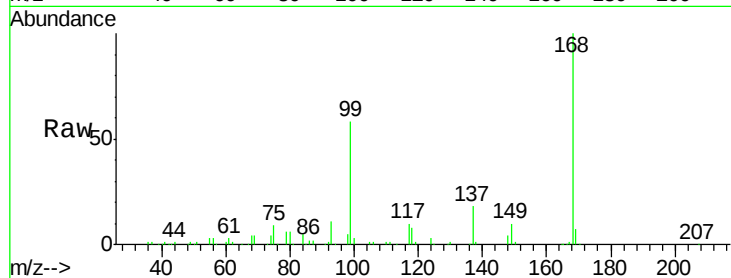
Tgt Ion: 75 Resp: 11189

Ion Ratio Lower Upper

75 100

110 8.5 17.2 51.6#

77 0.2 24.7 37.1#



#37

Ethyl Acetate

Concen: 19.438 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.09 min

Lab File: VY002112.D

Acq: 27 Mar 2020 17:45

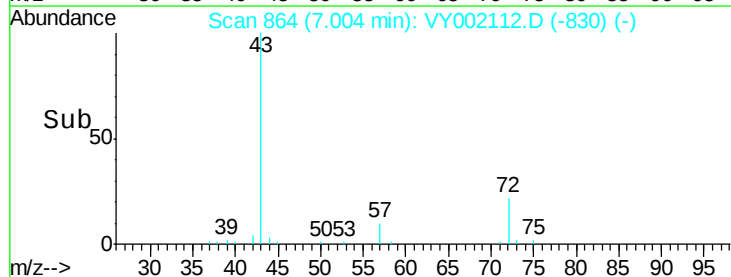
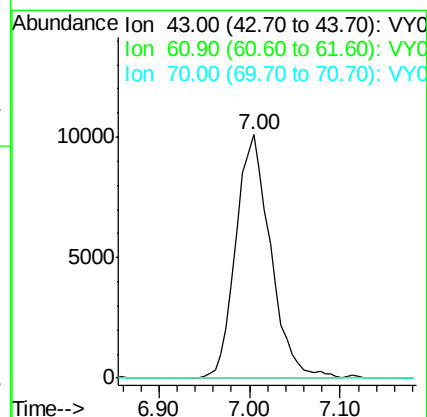
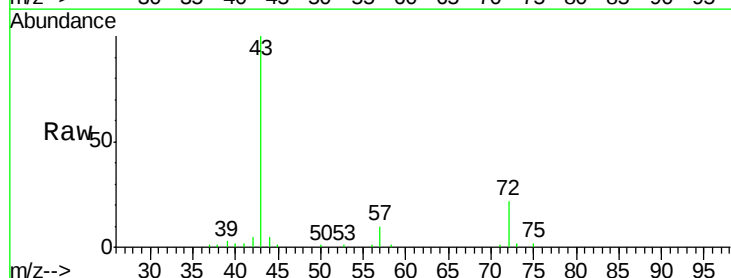
Tgt Ion: 43 Resp: 26877

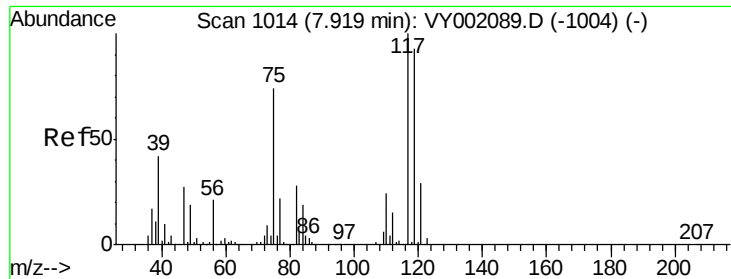
Ion Ratio Lower Upper

43 100

61 0.0 11.2 16.8#

70 0.0 8.2 12.4#

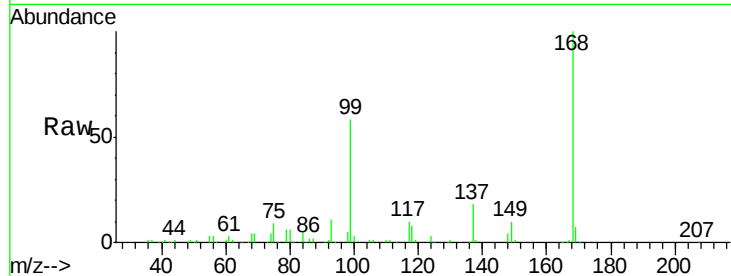




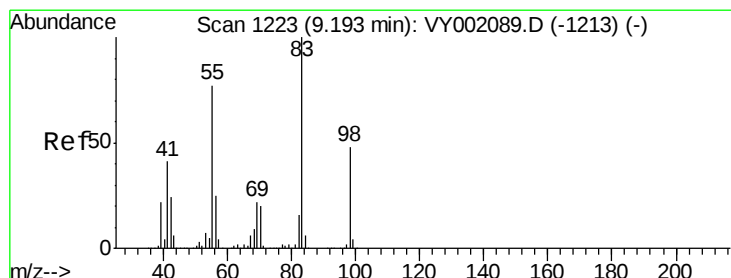
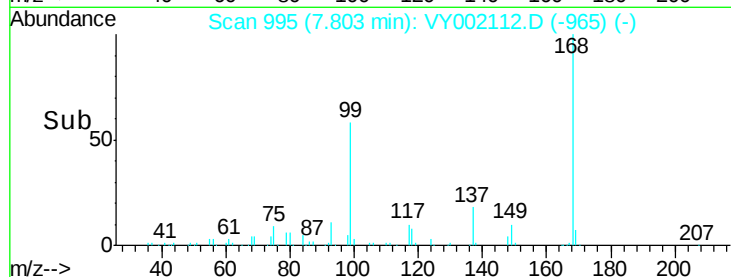
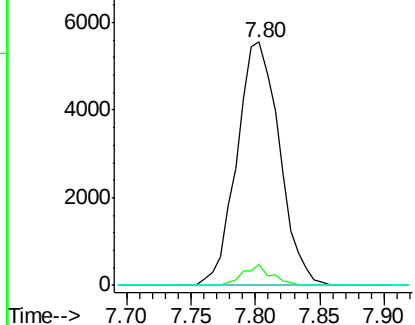
#38  
Carbon Tetrachloride  
Concen: 6.539 ug/l  
RT: 7.80 min Scan# 995  
Delta R.T. -0.12 min  
Lab File: VY002112.D  
Acq: 27 Mar 2020 17:45

Instrument :  
MSVOA\_Y  
ClientSampled :  
TP-13-(4-5)

Tgt Ion: 117 Resp: 12694  
Ion Ratio Lower Upper  
117 100  
119 8.6 74.3 111.5#  
121 0.0 23.3 34.9#

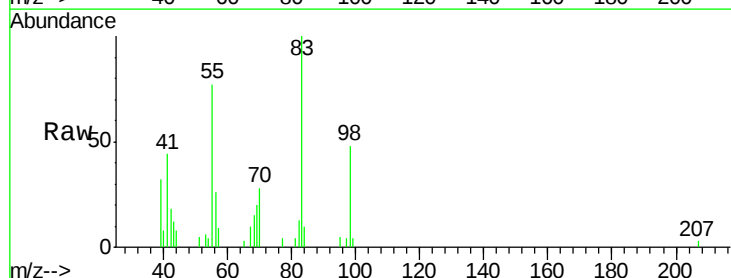


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

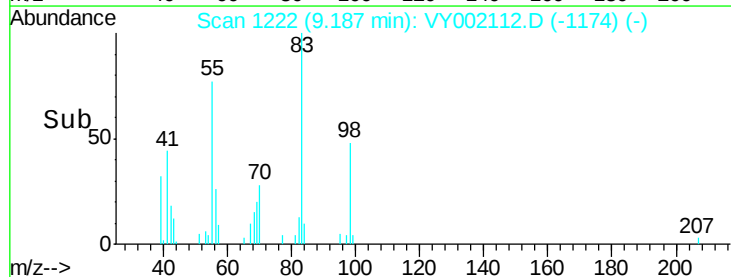
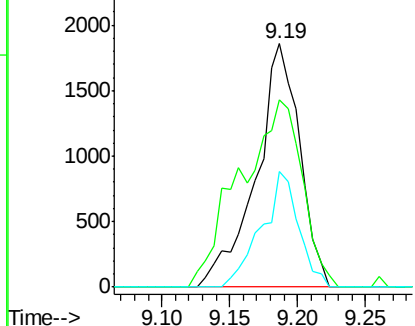


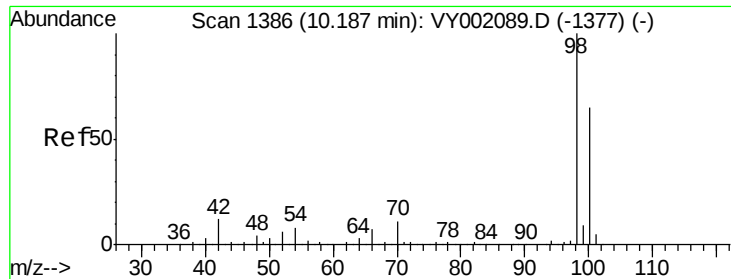
#39  
Methylcyclohexane  
Concen: 1.388 ug/l  
RT: 9.19 min Scan# 1222  
Delta R.T. -0.01 min  
Lab File: VY002112.D  
Acq: 27 Mar 2020 17:45

Tgt Ion: 83 Resp: 4166  
Ion Ratio Lower Upper  
83 100  
55 77.1 61.2 91.8  
98 47.7 38.2 57.2



Abundance Ion 83.00 (82.70 to 83.70): VY0  
Ion 55.00 (54.70 to 55.70): VY0  
Ion 98.00 (97.70 to 98.70): VY0





#50

Toluene-d8

Concen: 53.166 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. 0.00 min

Lab File: VY002112.D

Acq: 27 Mar 2020 17:45

Instrument :

MSVOA\_Y

ClientSampleId :

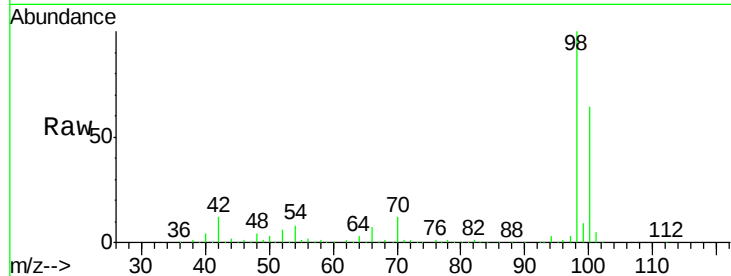
TP-13-(4-5)

Tgt Ion: 98 Resp: 299358

Ion Ratio Lower Upper

98 100

100 65.3 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

200000

150000

100000

50000

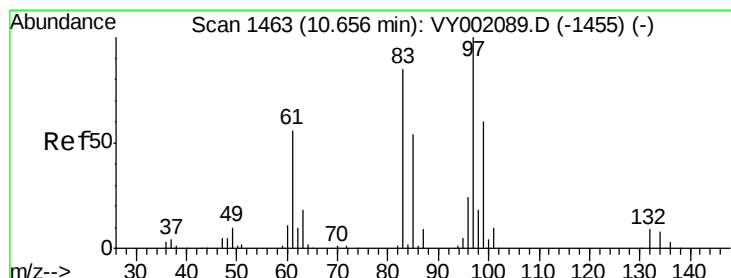
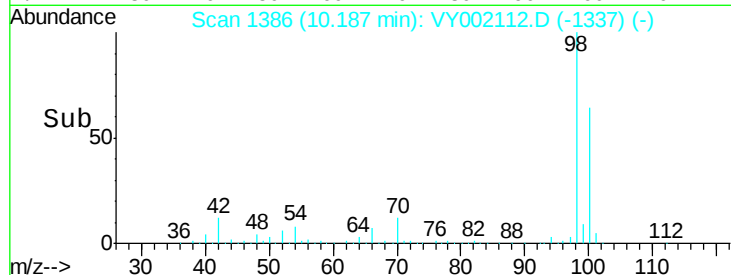
0

10.10

10.20

10.30

Time-->



#55

1,1,2-Trichloroethane

Concen: 1.766 ug/l

RT: 10.63 min Scan# 1458

Delta R.T. -0.03 min

Lab File: VY002112.D

Acq: 27 Mar 2020 17:45

Tgt Ion: 97 Resp: 2316

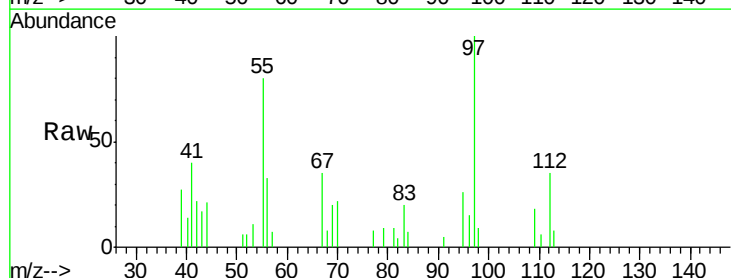
Ion Ratio Lower Upper

97 100

83 19.5 68.2 102.2#

85 0.0 42.9 64.3#

99 0.0 47.9 71.9#



Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

1500

1000

500

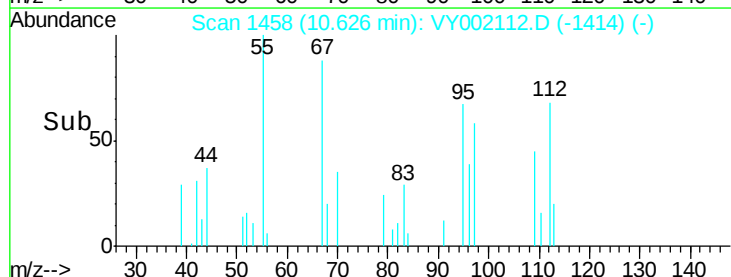
0

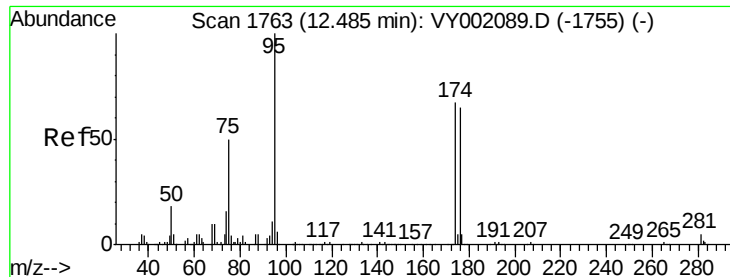
10.55

10.60

10.65

Time-->

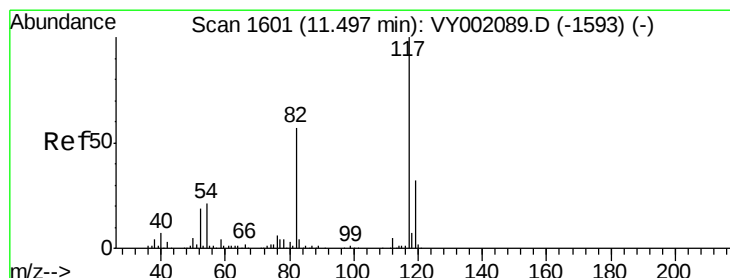
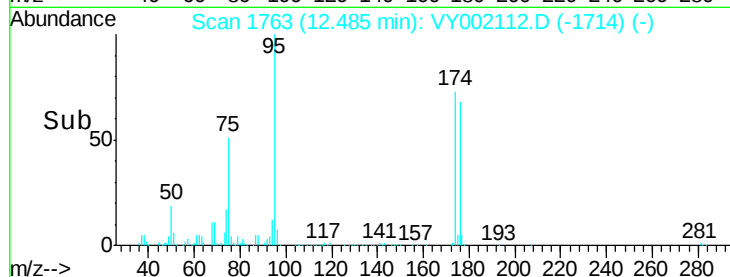
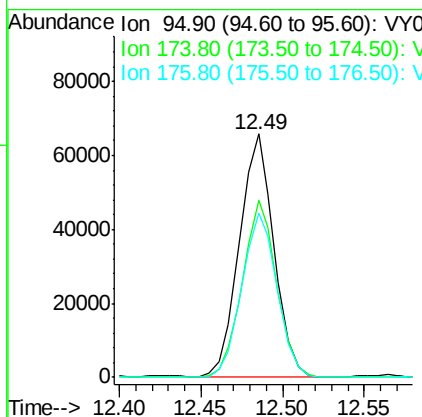
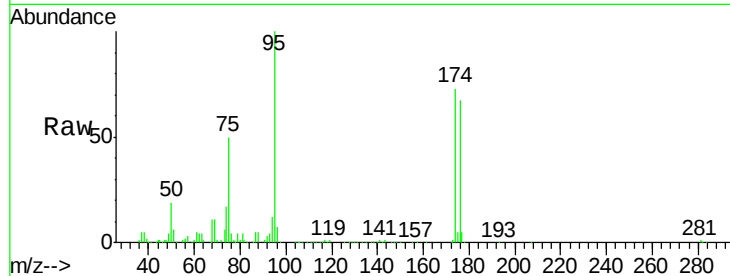




#62  
4-Bromofluorobenzene  
Concen: 48.989 ug/l  
RT: 12.49 min Scan# 1763  
Delta R.T. 0.00 min  
Lab File: VY002112.D  
Acq: 27 Mar 2020 17:45

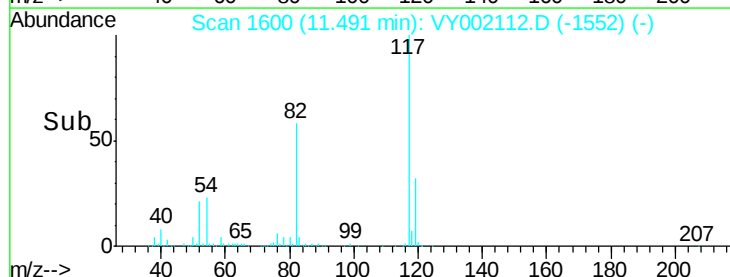
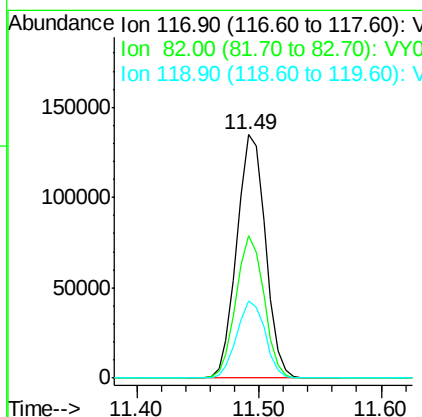
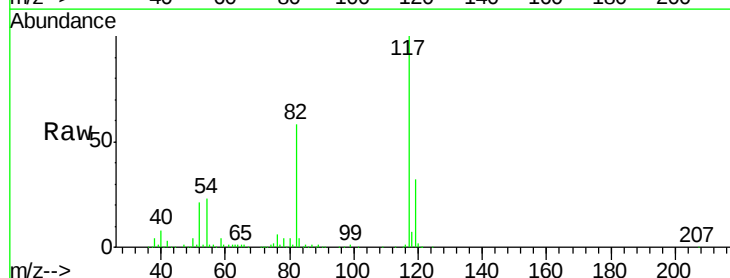
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-13-(4-5)

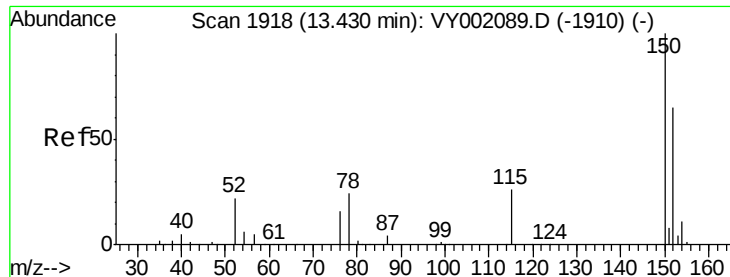
Tgt Ion: 95 Resp: 96471  
Ion Ratio Lower Upper  
95 100  
174 72.6 0.0 143.4  
176 69.2 0.0 137.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.01 min  
Lab File: VY002112.D  
Acq: 27 Mar 2020 17:45

Tgt Ion: 117 Resp: 218915  
Ion Ratio Lower Upper  
117 100  
82 58.3 45.4 68.2  
119 31.9 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. 0.00 min

Lab File: VY002112.D

Acq: 27 Mar 2020 17:45

Instrument :

MSVOA\_Y

ClientSampleId :

TP-13-(4-5)

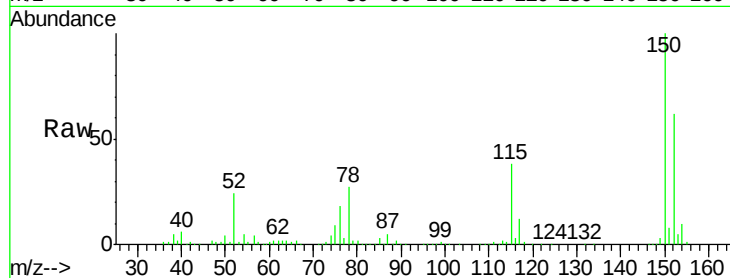
Tgt Ion:152 Resp: 87260

Ion Ratio Lower Upper

152 100

115 60.6 31.2 93.6

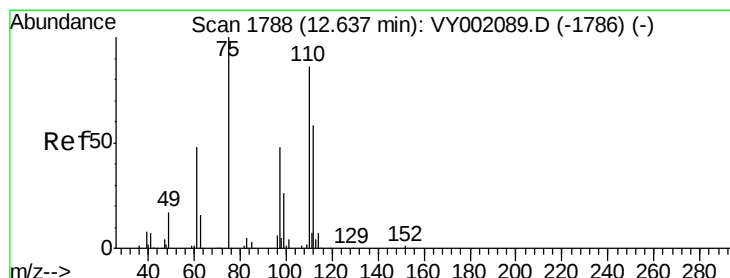
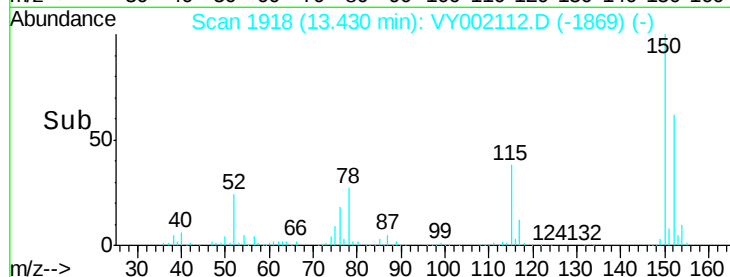
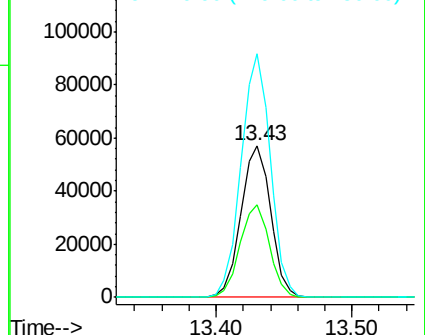
150 157.7 0.0 354.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 50.785 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY002112.D

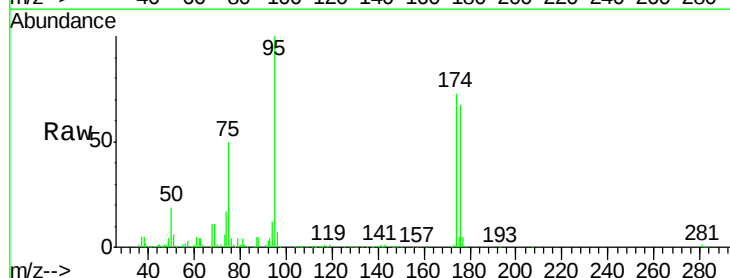
Acq: 27 Mar 2020 17:45

Tgt Ion: 75 Resp: 49570

Ion Ratio Lower Upper

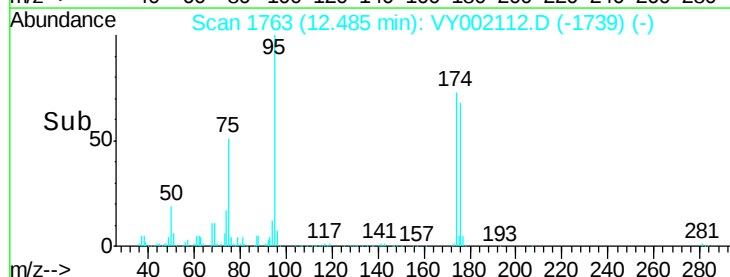
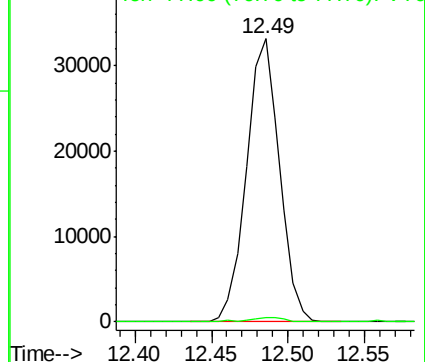
75 100

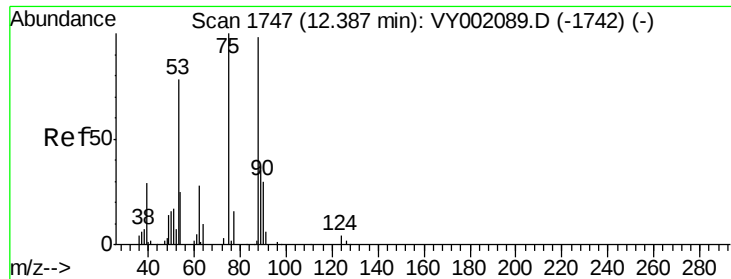
77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 98.388 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY002112.D

Acq: 27 Mar 2020 17:45

Instrument :

MSVOA\_Y

ClientSampleId :

TP-13-(4-5)

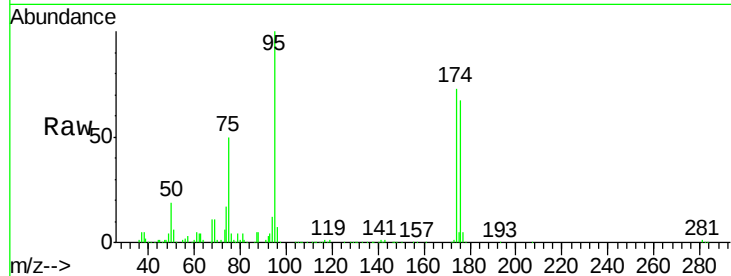
Tgt Ion: 75 Resp: 49570

Ion Ratio Lower Upper

75 100

53 0.0 65.0 97.4#

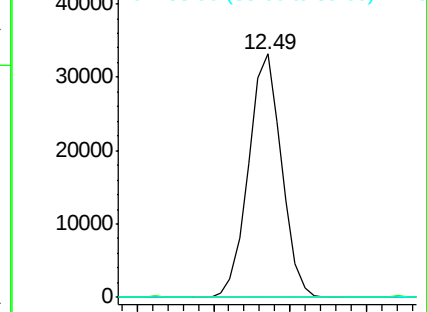
89 0.1 33.4 50.0#



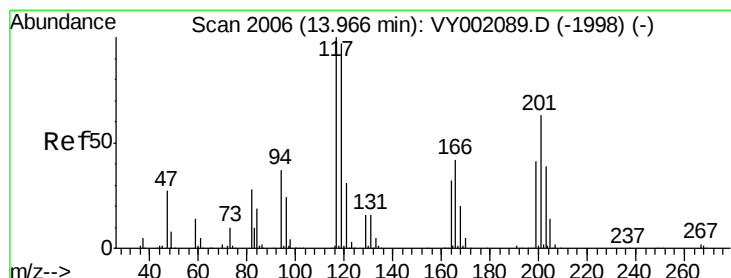
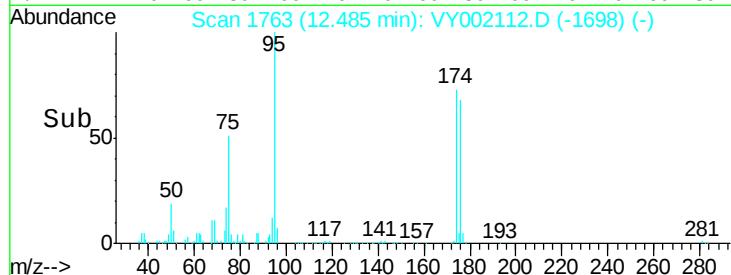
Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0



Time--> 12.40 12.45 12.50 12.55



#90

Hexachloroethane

Concen: 1.491 ug/l

RT: 14.09 min Scan# 2026

Delta R.T. 0.12 min

Lab File: VY002112.D

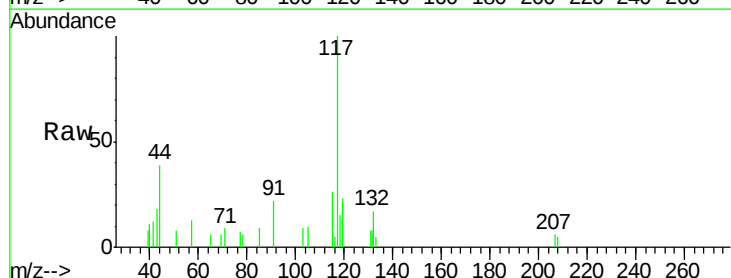
Acq: 27 Mar 2020 17:45

Tgt Ion: 117 Resp: 1593

Ion Ratio Lower Upper

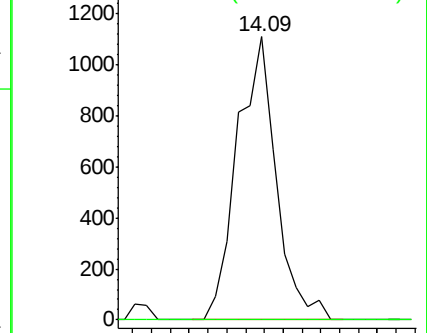
117 100

201 0.0 31.6 94.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



Time--> 14.05 14.10 14.15

